CDC'S Response to Zika



ZIKA 101



What is Zika virus disease (Zika)?

- Disease spread primarily through the bite of an infected Aedes aegypti or Ae. albopictus mosquito.
- Many people infected with Zika virus won't have symptoms or will only have mild symptoms.
- However, Zika can cause birth defects and other problems such as stillbirth and miscarriage.



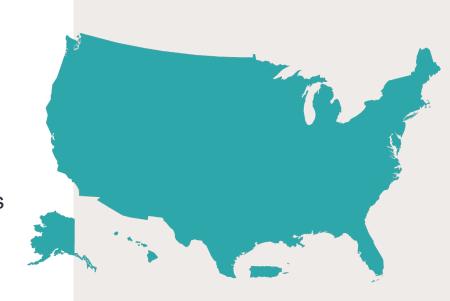
Where has Zika virus been found?

- Before 2015, Zika outbreaks occurred in Africa, Southeast Asia, and the Pacific Islands.
- Currently outbreaks are occurring in many <u>countries and territories</u>.



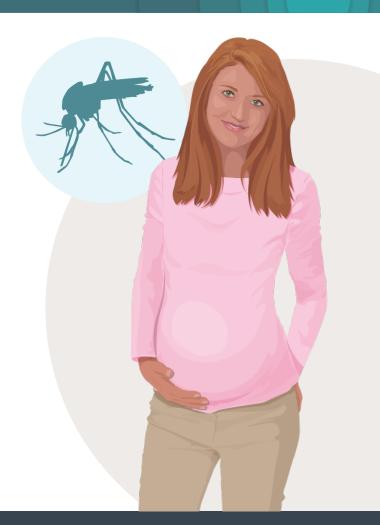
Zika and the United States

- Local transmission of Zika has been reported in the continental United States.
- Healthcare providers should report cases to their local, state or territorial health department.
- State and territorial health departments are encouraged to report confirmed cases to CDC through ArboNET, the national surveillance system for arboviral diseases.
- For the most recent case counts, visit <u>CDC's Cases in the United States</u> <u>webpage</u>.



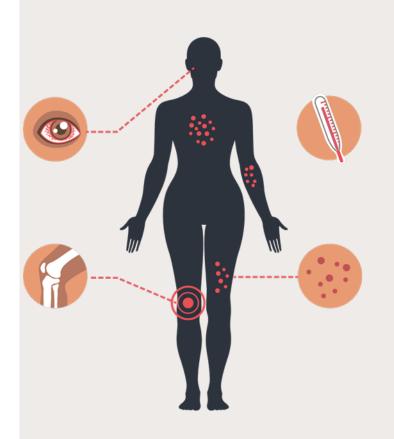
How is Zika transmitted?

- Zika can be spread through
 - » Mosquito bites
 - » From a pregnant woman to her fetus
 - » Sex with an infected person
 - » Probable: blood transfusion, organ and tissue transplant, fertility treatment, and breastfeeding



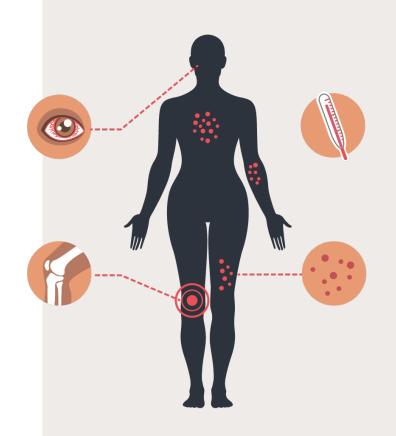
What are the symptoms?

- The most common symptoms of Zika are
 - » Fever
 - » Rash
 - » Joint pain
 - » Conjunctivitis (red eyes)



What are the symptoms?

- Other symptoms include
 - » Muscle pain
 - » Headache



How does Zika virus affect people?

- Anyone who lives in or travels to an area with Zika and has not already been infected with Zika virus can get it.
- Many people with Zika will not have symptoms or will only have mild symptoms.
- Symptoms last several days to a week.
- Severe disease requiring hospitalization is uncommon.



How does Zika affect pregnancies?

- Zika virus can pass from a pregnant woman to her fetus during pregnancy or around the time of birth.
- Not known how often this happens.



How does Zika affect pregnancies?

- Zika infection in pregnancy can cause microcephaly and other severe fetal brain defects.
 - » Microcephaly: birth defect in which a baby's head is smaller than expected when compared to babies of the same sex and age.
 - » No evidence that previous infection will affect future pregnancies.



How does Zika affect fetuses and infants?

- Other problems have been detected in fetuses and infants infected with Zika virus before birth.
 - » Miscarriage, stillbirth, absent or poorly developed brain structures, eye defects, hearing deficits, and impaired growth
- No reports of infants getting Zika through breastfeeding.



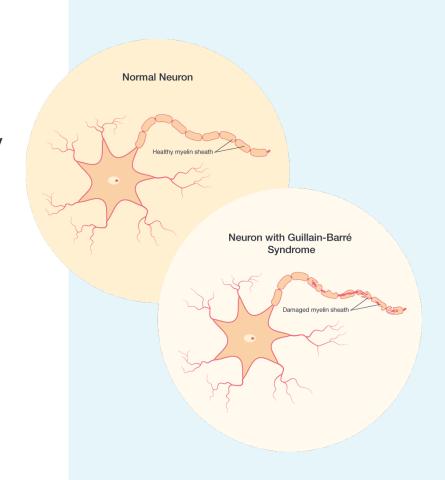
Zika pregnancy registry

- CDC established the <u>US Zika Pregnancy Registry</u> to collect information and learn more about pregnant women in the US with Zika and their infants.
- Data will be used to
 - » Update recommendations for clinical care
 - » Plan for services for pregnant women and families affected by Zika
 - » Improve prevention of Zika infection during pregnancy
- Zika Active Pregnancy Surveillance System is used in Puerto Rico.

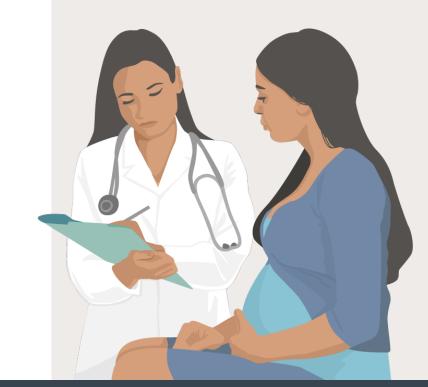


Does Zika cause Guillain-Barré syndrome (GBS)?

- Research suggests that GBS is strongly associated with Zika; however, only a small proportion of people with recent Zika virus infection get GBS. CDC is continuing to investigate the link between GBS and Zika to learn more.
- GBS is an uncommon sickness of the nervous system in which a person's own immune system damages the nerve cells, causing muscle weakness, and sometimes, paralysis.



- Diagnosis of Zika is based on a person's recent travel history, symptoms, and test results.
- A blood or urine test can confirm a Zika infection.



 Symptoms of Zika are similar to other illnesses, like dengue and chikungunya, that spread through mosquito bites.



 A doctor or other healthcare provider may order tests to look for several types of infections.



- All pregnant women should be assessed for Zika exposure at each prenatal care visit.
 They should be asked if they
 - » Traveled to or live in an area with active Zika transmission.
 - » Had sex without a condom with a partner who lives in or traveled to an area with active Zika transmission.



How is Zika treated?

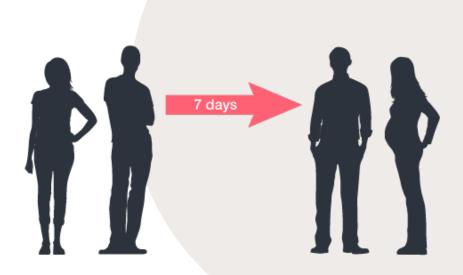
 There is no specific medicine or vaccine for Zika virus infection.

- Treat the symptoms
 - » Rest
 - » Drink fluids to prevent dehydration
 - » Do not take aspirin or other non-steroidal anti-inflammatory drugs (NSAIDS).
 - » Take acetaminophen (Tylenol®) to reduce fever and pain.



What to do after getting Zika

- Protect yourself from mosquito bites.
 During the first week of illness, Zika virus can be found in blood.
- The virus can be passed from an infected person to a mosquito through bites.
- An infected mosquito can spread the virus to other people.



PREVENTING MOSQUITO BITES

Zika is primarily spread through mosquito bites. Protect yourself and others.



- Here's what you can do to help control mosquitoes <u>outside</u> your home:
 - » Use an outdoor insect spray made to kill mosquitoes in areas where they rest.
 - » If you have a septic tank, repair cracks or gaps.

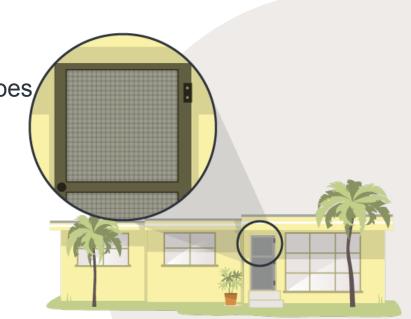


- Here's what you can do to help control mosquitoes <u>outside</u> your home:
 - » Once a week, empty and scrub, turn over, cover, or throw out items that hold water.
 - » Tightly cover water storage containers.
 - » Use larvicides to kill young mosquitoes in large containers of water that will not be used for drinking.



Here's what you can do to keep mosquitoes outside of your home:

- » Use window and door screens.
- » Use air conditioning when possible.
- » Once a week, empty, scrub, turn over, or throw out items that hold water.
- » Use an indoor insect fogger or indoor insect spray.
 - When using insecticides, always follow label directions.



- When traveling:
 - » Stay in places with air conditioning and with window and door screens.
 - » Use a bed net if air conditioned or screened rooms are not available or if sleeping outdoors.



Create a barrier between you and mosquitoes

- Cover up!
 - » Wear long-sleeved shirts and long pants



Create a barrier between you and mosquitoes

- Treat clothing and gear
 - » Use permethrin* to treat clothing and gear or buy pre-treated items.
 - » See product information to learn how long the protection will last.
 - » Do not use permethrin products directly on skin.



^{*} Permethrin is not effective in Puerto Rico.

Wear insect repellent

- Use Environmental Protection Agency (EPA)-registered insect repellents.
 - » Use a repellent with DEET, picaridin, IR3535, or oil of lemon eucalyptus or paramenthane-diol



Wear insect repellent

- Always follow the product label instructions.
- Do not spray repellent on the skin under clothing.
- If also using sunscreen, apply sunscreen before applying insect repellent.



Protect your family

- For babies and children
 - » Dress your child in clothing that covers arms and legs.
 - » Do not use insect repellents on babies younger than 2 months old.
 - » Do not use products containing oil of lemon eucalyptus or para-menthane-diol on children younger than 3 years old.



Protect your family

- For babies and children
 - » Cover crib, stroller, and baby carrier with mosquito netting.



Protect your family

- For babies and children
 - » Do not apply onto hands, eyes, mouth, and cut or irritated skin.
 - » Adults: Spray onto your hands and then apply to a child's face.
 - » Remember: Do not use insect repellent on babies younger than 2 months old.



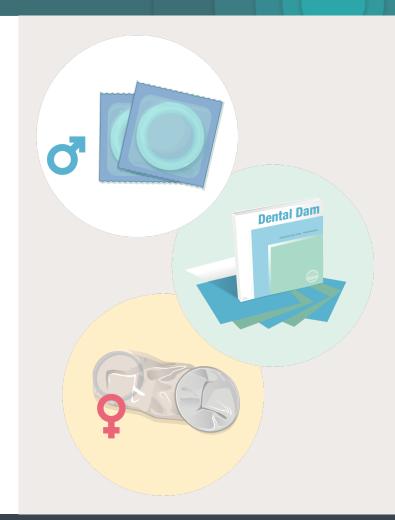
- Zika can be passed through sex from a person who has Zika to his or her sex partners.
 - » Sex includes vaginal, anal, and oral sex, and the sharing of sex toys.
- Zika can be passed through sex before symptoms start, during, and after symptoms end.
 - » It can be passed even if the infected person does not have symptoms at the time.
- Zika virus can remain in semen longer than in other body fluids, including vaginal fluids, urine, and blood.



- We do not know
 - » If sexually-transmitted Zika virus poses a different risk of birth defects than mosquito-borne transmission.
- CDC and other public health partners continue to study Zika virus and how it is spread.



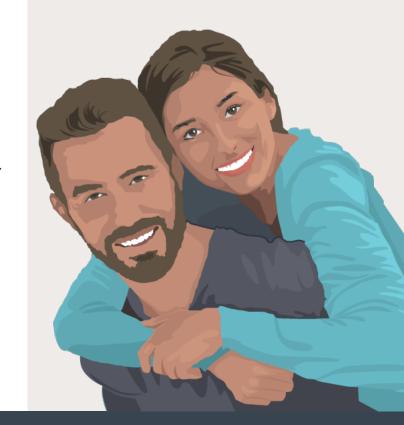
- Not having sex eliminates the risk of getting Zika from sex.
- Condoms can reduce the chance of getting Zika from sex if used correctly from start to finish, every time you have vaginal, anal, or oral sex.
 - » Condoms include male and female condoms.



- Pregnant couples in which one or both partners have traveled to or live in an area with Zika should use a condom <u>correctly</u>, from start to finish, every time they have sex or should not have sex during the pregnancy.
- Not sharing sex toys can also reduce the risk of spreading Zika to sex partners.



- People without a pregnant partner who recently traveled to or lived in an area with Zika
 - » If you've been diagnosed with Zika or have (or had) symptoms, you can use condoms or not have sex for 6 months after symptoms begin.
 - » If you never developed symptoms, you can use condoms or not have sex for 8 weeks after returning from travel, or while there is Zika in the area.



Do your homework before traveling

- If you are pregnant, do not travel to areas with Zika.
 - » If you must travel, talk to your doctor or other healthcare provider before your trip.
- If you are trying to get pregnant, talk to your doctor or other healthcare provider before you travel.



Do your homework before traveling

If you choose to travel:

- » Strictly follow steps to prevent mosquito bites to protect yourself and your family.
- Even if you do not feel sick, travelers from an area with Zika should take steps to prevent mosquito bites for 3 weeks so they do not spread Zika to uninfected mosquitoes.
- » Use condoms or do not have sex while traveling to areas with Zika.



Do your homework before traveling

See the latest travel notices at:

wwwnc.cdc.gov/travel/page/zika-travel-information



What is CDC doing?

- Activated Emergency Operations Center (EOC) to level 1.
- Providing on-the-ground support in areas with Zika.
- Educating healthcare providers and the public about Zika.
- Posting travel guidance.
- Providing laboratories with diagnostic tests.
- Creating and distributing Zika Prevention Kits to affected US territories.
- Conducting a study to evaluate the persistence of Zika virus in semen, vaginal fluids and urine.



What is CDC doing?

- Working with partners to
 - » Monitor and report cases.
 - » Conduct studies to learn more about the potential link between Zika and Guillain-Barré syndrome.
 - » Create action plans for state and local health officials to improve Zika preparedness.
 - » Publish and disseminate guidelines to inform testing and treatment of people with suspected or confirmed Zika.
 - » Publish and disseminate conclusions on the causal association between Zika and microcephaly.



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For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

